

IN THE CLAIMS:

1. (Currently Amended) A device for holding a flexible hose, the device comprising:

a holding part;

at least one holding means with a holding surface area for ~~an~~ ~~at least~~ axially holding

[[of]] the hose; and

5 at least one one-sided support surface area surrounding the flexible hose and expanding

from said holding surface area towards an end of the flexible hose, with an inner curved

surface extending from a reduced outer diameter circular end, adjacent to said holding surface

area, to an expanded outer diameter circular end, said flexible hose being non-rotatably fixed

to [[the]] said holding surface area and [[the]] said holding area means being freely rotatably

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connected to [[a]] said holding part and being fixed against axial movement to said holding

means whereby the flexible hose may roll over said support surface area whereas with said

hose non-rotatably fixed to said said holding surface area, a relative rotary movement takes

place between said holding part and said holding means.

2. (Currently Amended) A device according to claim 1, wherein the holding surface

area has a substantially cylindrical outer surface and an inner surface comprising inwardly

directed annular ribs, said inner curved surface of said support surface area having a decreasing

radius of curvature from a location adjacent to said holding section holding surface area to said

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expanded diameter end, said decreasing radius being one of progressively decreasing and

comprising a first larger radius of curvature adjacent to said holding section holding surface

area followed by a second smaller radius of curvature adjacent to said expanded outer diameter end.

3. (Previously Presented) A device according to claim 1, further comprising an application area for applying the device to the holding part.

4. (Previously Presented) A device according to claim 3, wherein the holding part is constructed as a fixing clamp or clip.

5. (Previously Presented) A device according to claim 3, wherein the application section has an outer annular groove.

6. (Previously Presented) A device according to claim 5, wherein an inwardly directed lug of the holding part engages in the annular groove.

7. (Previously Presented) A device according to claim 1, further comprising a construction with at least two partial shells (halfshells).

8. (Previously Presented) A device according to claim 7, wherein the partial shells are screwed together.

9. (Previously Presented) A device according to claim 7, wherein the partial shells are interconnected by snap action devices.

10. (Previously Presented) A device according to claim 7, wherein the partial shells are held together by a closing ring.

11. (Previously Presented) A device according to claim 10, wherein the closing ring is constructed in one piece.

12. (Previously Presented) A device according to claim 10, wherein the closing ring is formed by several partial rings.

13. (Previously Presented) A device according to claim 12, wherein the partial rings of the closing ring are connectable by snap constructions by snapping in perpendicular to the axis of symmetry.

14. (Currently Amended) A device according to claim 12, further comprising rigid, complimentary shapes, engaging behind in [[the]] a closed position and located on end faces of the partial rings of the closing ring and axial connectability of the shapes and therefore the partial rings.

15. (Previously Presented) A device according to claim 10, further comprising a cylindrical shoulder for the non-positive reception of the closing ring in a radial and circumferential direction.

16 - 22. (Canceled)

23. (Currently Amended) A device according to claim 1, wherein a inner part radius of curvature (R1) of expansion of an inner part of the support surface area is of the same order of magnitude as a minimum bending radius of the flexible hose minus half the diameter of the flexible hose.

24. (Previously Presented) A device according to claim 23, wherein a support area end radius of curvature (R2) of the support area is smaller than the inner part radius of curvature (R1) to provide an edgeless transition.

25. (Previously Presented) A device according to claim 24, wherein the support area end radius of curvature (R2) is 10% to 20% of the inner part radius of curvature (R1).

26. (Currently Amended) A flexible hose holding arrangement, comprising:  
a flexible hose with a holdable outer surface;  
a holding and support single element including a holding portion with a holding surface

area for an axial and rotational holding of said holdable outer surface of said flexible hose to  
5 maintain the axial and rotational position of a held end of said flexible hose in position relative  
to said holding surface area and a support portion having a trumpet-shape with a reduced outer  
diameter end, adjacent to said holding surface area, and an expanded outer diameter end, said  
support portion having an inner side support area surrounding the flexible hose and extending  
towards said expanded outer diameter end, wherein the support area has an accurate inner  
10 curved surface radially widening as it extends continuously and uniformly from said reduced  
outer diameter end to said expanded outer diameter end with a radius of said inner curved  
surface having a progressively decreasing radius of curvature from a location adjacent to said  
holding section surface area to said expanded diameter end; and

15 a holding part with a connection feature for rotational connection of said holding and  
support single element to said holding part and an axial fixing of said holding and support  
single element to said holding part.

27. (Currently Amended) A flexible hose holding arrangement according to claim 26,  
wherein

the decreasing radius of curvature comprises a larger radius of curvature section  
adjacent to said holding section surface area followed by a smaller radius of curvature section  
5 adjacent to said expanded outer diameter end; and

the holding surface area has a substantially cylindrical outer surface and an inner  
surface comprising inwardly directed annular ribs and said holdable outer surface is a ribbed

hose surface cooperating with said annular ribs to rotationally and axially hold said free end at said holding surface area.

28. (New) An industrial robot flexible hose holding arrangement, comprising:

an industrial robot;

a robot protective flexible hose with a holdable outer surface;

a holding and support single element including a holding portion with a holding surface

5 area for an axial and rotational holding of said holdable outer surface of said flexible hose to maintain the axial and rotational position of a held end of said flexible hose in position relative

to said holding surface area and a support portion having a trumpet-shape with a reduced outer diameter end, adjacent to said holding surface area, and an expanded outer diameter end, said support portion having an inner side support area surrounding the flexible hose and extending

10 towards said expanded outer diameter end, wherein the support area has an accurate inner curved surface radially widening as it extends continuously and uniformly from said reduced outer diameter end to said expanded outer diameter end with a radius of said inner curved surface having a progressively decreasing radius of curvature from a location adjacent to said holding surface area to said expanded diameter end; and

15 a holding part connected to said industrial robot, said holding part comprising a connection feature for rotational connection of said holding and support single element to said holding part and an axial fixing of said holding and support single element to said holding part.